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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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	(PCT Arti	cle 36 and Rule 70)			
Applicant's or agent's file refere 03SGL0257WOP	FOR FURTHER	RACTION See Notifi Preliminary	cation of Transmittal of In Examination Report (Form PCT/	iternat IPEA/	
International application No. PCT/EP2003/01022	į į	g date (day/month/year) 2003 (13.09.2003)	Priority date (day/month/year) 14 September 2002 (14.0	09.20	
International Patent Classification C03C 17/34	n (IPC) or national classification	and IPC			
Applicant	SCF	IOTT AG			
This international prelin and is transmitted to the	ninary examination report has be applicant according to Article 3	en prepared by this Interr 6.	national Preliminary Examining A	uthori	
2. This REPORT consists	of a total of 5 she	ets, including this cover s	heet.		
amended and are	o accompanied by ANNEXES, in the basis for this report and/or some formal of the Administrative Instructive Instru	heets containing rectifica	on, claims and/or drawings which tions made before this Authority	have (see	
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3. This report contains indi		•		· · · · · · · · · · · · · · · · · · ·	
	cations relating to the following	, items:			
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	ablishment of opinion with regar	d to hoverry, inventive sie	ep and industrial applicability		
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V Reasone citations	and explanations supporting su	ch statement	ventive step or industrial applicab	my;	
VI Certain	documents cited				
VII Certain	defects in the international appli	cation			
VIII Certain	observations on the international	application			
	 				
Date of submission of the demar	d	Date of completion o	f this report		
25 February 2004 (25.02.2004)		22 De	cember 2004 (22.12.2004)		
Name and mailing address of the IPEA/EP		Authorized officer			
Facsimile No.		Talanhana No	Telephone No.		

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/010221

I. Basis	of the report				
1. With	regard to the elemen	nts of the international applica	ation:*		
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International application No. PCT/EP 03/10221

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	12,13,16,17,23,24,35-41,46,48	YES
	Claims	1-11,14,15,18-22,25-34,42-45,47	NO
Inventive step (IS)	Claims		YES
	Claims	1-49	NO
Industrial applicability (IA)	Claims	1-49	YES
	Claims	•	NO

2. Citations and explanations

Reference is made to the following documents:

D1: US-A-5 944 964 (POND BRADLEY JAMES ET AL)

D2: EP-A-0 548 972 (ASAHI GLASS CO LTD)

D3: KLINGER R E: "EVOLUTION OF SURFACE ROUGHNESS AND SCATTER IN EVAPORATED ZIRCONIA/SILICA MULTILAYER COATINGS" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 678, 1986, pages 41-50, ISSN: 0277-786X D4: SELHOFER H ET AL: "Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses" THIN SOLID FILMS, ELSEVIER-SEQUOIA S.A. LAUSANNE, CH, vol. 351, nos. 1-2, 30 August 1999 (1999-08-30), pages 180-183, ISSN: 0040-6090

1 Novelty

D1 (see column 9, line 44 to column 10, line 26) discloses a glass substrate with at least one functional layer (of various thicknesses) which is interrupted by at least one intermediate layer of 1-2 nm in order to influence morphology.

D1 (column 8, line 43 to column 9, line 43) further

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

discloses influencing the morphology of the functional layer during the coating process.

D2 (claims 1-8) also discloses a glass substrate with at least one functional layer (40-100 nm) which is interrupted by at least one intermediate layer of 2-10 nm.

The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-11, 14, 15, 18-22, 25-34, 42-45 and 47 is not novel within the meaning of PCT Article 33(2).

2 Inventive step

In light of the present state of knowledge, there are serious reservations with respect to the inventive step of the dependent claims, even if they are novel.

D3 (page 43, paragraph 3) describes the use of a SiO₂ intermediate layer to give a ZrO₂ layer morphology in which dense columns grow perpendicularly to the substrate surface. The coated objects described in D3 are characterized by smoother surfaces.

D3 describes the same advantages with respect to the feature of layer morphology as does the present application.

D4 suggests the substitution of titanium-aluminium oxide for titanium oxide as a high refractive index layer.

The pre- and post-treatment steps described are only some of the many obvious possibilities from which a person skilled in the art would choose according to the circumstances, without thereby being inventive

Protective layers on glass-ceramic cooking surfaces are also not considered to involve an inventive step. Further, it is noted that optical coatings, in particular zirconium oxide (see D1, column 1, line 64 to column 2, line 14), also have a certain hardness.

In light of the present state of knowledge, it is unclear what problem is solved by the dependent claims in a manner non-obvious to a person skilled in the art.

The present application therefore does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-49 does not involve an inventive step within the meaning of PCT Article 33(3).